

AMENDMENTS TO THE CLAIMS

Detailed Listing of All Claims 1-29:

- 5 1. (original) A variable position catalyst, comprising:
a catalyst housing (7) accommodating a catalyst body (1); and
an actuator member (9) for moving the catalyst body (1) with respect to the
catalyst housing (7) such that the catalyst body (1) can be moved to an active
catalyst position (35) or to an inactive catalyst position (14),
10 characterized in that
said catalyst body (1) is held by a cradle (5) having a plate (2, 3), and
said active catalyst position (35) is provided in an exhaust passage the inner
wall of which is in alignment with the plate (2, 3) when the catalyst body (1) is moved
in its inactive catalyst position.
- 15 2. (original) The variable position catalyst according to claim 1, wherein the plate (2,
3) is disc-shaped.
3. (original) The variable position catalyst according to claim 1 or 2, wherein the
20 active catalyst position (35) is exposed to an exhaust gas stream of an engine.
4. (currently amended) The variable position catalyst according to ~~any of claim~~[[s]] 1
~~to 3~~, wherein at least the inactive catalyst position (14) is provided within the catalyst
housing (7).
- 25 5. (currently amended) The variable position catalyst according to ~~any of claim~~[[s]] 1
~~to 4~~, wherein the cradle (5) is connected to the actuator member (9) by an actuator
rod (10).

6. (original) The variable position catalyst according to claim 5, wherein the catalyst housing (7) has a cylindrical inner shape and the cradle (5) has a cylindrical outer shape, the inner diameter of the catalyst housing (7) fitting to the outer diameter of the cradle (5).

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7. (original) The variable position catalyst according to claim 5 or 6, wherein the cradle (5) comprises two disc-shaped plates (2, 3) between which the catalyst body (1) is held.

10 8. (currently amended) The variable position catalyst according to ~~any of claim~~[[s]] 1 ~~to 7~~, wherein the actuator member (2) is a pneumatic device.

9. (currently amended) The variable position catalyst according to ~~any of claim~~[[s]] 1 ~~to 7~~, wherein the actuator member (9) is an electric device.

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10. (original) The variable position catalyst according to claim 5, wherein the actuator rod (10) moves the catalyst body (1) to the active catalyst position (35) when the actuator (9) is actuated, and moves the catalyst body (1) to the inactive catalyst position (7) when the actuator (9) is released.

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11. (currently amended) The variable position catalyst according to ~~any of the preceding claims~~claim 1, wherein the catalyst body (1), the catalyst housing (7) and the actuator member (9) comprise one common axis along which the catalyst body (1) is movable.

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12. (original) The variable position catalyst according to claim 11, wherein the actuator member (9) is located outside the catalyst housing (7), and the actuator rod (10) penetrates the catalyst housing (7) along the common axis.

13. (currently amended) The variable position catalyst according to ~~any of claim~~[[s]]
5 ~~5 to 12~~, wherein the cradle (5) comprises a leading edge (13a) which is always in
contact with a portion of the catalyst housing (7) providing the inactive position (14).

5 14. (currently amended) The variable position catalyst according to ~~any of the~~
~~preceding claims~~claim 1, wherein the variable position catalyst is provided upstream
of a turbocharger of an engine.

10 15. (original) An internal combustion engine, wherein an exhaust gas of the engine
is passed through an exhaust gas passage, the combustion engine further
comprising a variable position catalyst having:
a catalyst housing (7) accommodating a catalyst body (1); and
an actuator member (9) for moving the catalyst body (1) with respect to the
catalyst housing (7) such that the catalyst body (1) can be moved to an active
15 catalyst position (35) or to an inactive catalyst position (14),
characterized in that
said catalyst body (1) is held by a cradle (5) having a plate (2, 3), and
said active catalyst position (35) is provided in an exhaust passage the inner
wall of which is in alignment with the plate (2, 3) when the catalyst body (1) is moved
20 in its inactive catalyst position.

16. (original) The internal combustion engine according to claim 15, wherein the
plate (2, 3) is disc-shaped.

25 17. (original) The internal combustion engine according to claim 15 or 16, wherein
the active catalyst position (35) exposed to an exhaust gas stream of the engine.

18. (currently amended) The internal combustion engine according to ~~any of~~
claim[[s]] 15 ~~to 17~~, wherein at least the inactive catalyst position (14) is provided
30 within the catalyst housing (7).

19. (currently amended) The internal combustion engine according to ~~any of~~
claim[[s]]15-~~to 18~~, wherein the catalyst body (1) is held by a cradle (5) connected to
the actuator member (9) by an actuator rod (10).

5 20. (original) The internal combustion engine according to claim 19, wherein the
catalyst housing (7) has a cylindrical inner shape and the cradle (5) has a cylindrical
outer shape, the inner diameter of the housing fitting to the outer diameter of the
cradle (5).

10 21. (original) The internal combustion engine according to claim 19 or 20, wherein
the cradle comprises two disc-shaped plates (1, 2) between which the catalyst body
(1) is held.

22. (currently amended) The internal combustion engine according to ~~any of~~
15 claim[[s]] 15-~~to 24~~, wherein the actuator member (9) is a pneumatic device.

23. (currently amended) The internal combustion engine according to ~~any of~~
claim[[s]] 15-~~to 24~~, wherein the actuator member (9) is an electric device.

20 24. (original) The internal combustion engine according to claim 23, wherein the
actuator rod (10) moves the catalyst body (1) to the active catalyst position (35)
when the actuator (9) is actuated, and moves the catalyst body (1) to the inactive
catalyst position (14) when the actuator (9) is released.

25 25. (currently amended) The internal combustion engine according to ~~any of the~~
~~preceding claims~~claim 15, wherein the catalyst body (1), the catalyst housing (7) and
the actuator member (9) comprise one common axis along which the catalyst body
(1) is movable.

26. (original) The internal combustion engine according to claim 25, wherein the actuator member (9) is located outside the catalyst housing (7), and the actuator rod (10) penetrates the catalyst housing (7) along the common axis.

5 27. (currently amended) The internal combustion engine according to ~~any of~~ claim[[s]] 19 ~~to~~ 26, wherein the cradle (5) comprises a leading edge (13a) which is always in contact with a portion of the catalyst housing (7) providing the inactive position (35).

10 28. (original) The combustion engine according to claim 27, wherein a part of the catalyst housing (7) constitutes a part of the exhaust gas passage.

29. (currently amended) The combustion engine according to ~~any of claim[[s]] 15 to~~ 28, further comprising a turbocharger for compressing the air to be supplied to the
15 combustion engine, wherein the variable position catalyst is disposed upstream of the turbocharger.